

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE February 2000																																														
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)																																																	
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost																																												
Total Program Element (PE) Cost	42025	71879	57419	76674	71545	65355	65395	Continuing	Continuing																																												
D909 Tactical Exploitation of National Capabilities (TENCAP) - Engineering Development (TIARA)	42025	71879	44503	46748	43926	59554	59395	Continuing	Continuing																																												
D957 Tactical Exploitation System (TES) (TIARA)	0	0	12916	29926	27619	5801	6000	Continuing	Continuing																																												
<p>A. Mission Description and Budget Item Justification: This project supports the engineering development, enhancement, and sustainment of the Tactical Exploitation System (TES), Division TES (DTES), Advanced Electronic Processing Dissemination System (AEPDS), Mobile Integrated Tactical Terminal (MITT), and Forward Area Support Terminal (FAST). The Army's TES incorporates the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program. TES brings all of the existing and emerging Army TENCAP capabilities (AEPDS, Modernized Imagery Exploitation System (MIES), and Enhance Tactical Radar Correlator (ETRAC)) into an integrated common baseline that is downsized, modular and scaleable to meet a wide range of contingency requirements. DTES will replace the MITT. TENCAP Common Baseline addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems. MIES, ETRAC, and the CIG/SS portion of TES are funded under PE 0305208A. Specific details are provided in the Tactical Intelligence and Related Activities (TIARA) Congressional Budget Justification Book, Volume II and the Joint Military Intelligence Programs (JMIP) Congressional Budget Justification Book, Vol. II.</p>																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">B. Program Change Summary</th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget (<u>FY 2000/2001</u> PB)</td> <td style="text-align: center;">43950</td> <td style="text-align: center;">70940</td> <td style="text-align: center;">57008</td> </tr> <tr> <td>Appropriated Value</td> <td style="text-align: center;">44674</td> <td style="text-align: center;">72440</td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> </tr> <tr> <td>a. Congressional General Reductions</td> <td style="text-align: center;">-724</td> <td></td> <td></td> </tr> <tr> <td>b. SBIR / STTR</td> <td style="text-align: center;">-1647</td> <td></td> <td></td> </tr> <tr> <td>c. Omnibus or Other Above Threshold Reductions</td> <td></td> <td style="text-align: center;">-298</td> <td></td> </tr> <tr> <td>d. Below Threshold Reprogramming</td> <td style="text-align: center;">-26</td> <td></td> <td></td> </tr> <tr> <td>e. Rescissions</td> <td style="text-align: center;">-252</td> <td style="text-align: center;">-263</td> <td></td> </tr> <tr> <td>Adjustments to Budget Years Since <u>FY 2000/2001</u> PB</td> <td></td> <td></td> <td style="text-align: center;">+411</td> </tr> <tr> <td>Current Budget Submit (<u>FY 2001</u> PB)</td> <td style="text-align: center;">42025</td> <td style="text-align: center;">71879</td> <td style="text-align: center;">57419</td> </tr> </tbody> </table>										B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	Previous President's Budget (<u>FY 2000/2001</u> PB)	43950	70940	57008	Appropriated Value	44674	72440		Adjustments to Appropriated Value				a. Congressional General Reductions	-724			b. SBIR / STTR	-1647			c. Omnibus or Other Above Threshold Reductions		-298		d. Below Threshold Reprogramming	-26			e. Rescissions	-252	-263		Adjustments to Budget Years Since <u>FY 2000/2001</u> PB			+411	Current Budget Submit (<u>FY 2001</u> PB)	42025	71879	57419
B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>																																																		
Previous President's Budget (<u>FY 2000/2001</u> PB)	43950	70940	57008																																																		
Appropriated Value	44674	72440																																																			
Adjustments to Appropriated Value																																																					
a. Congressional General Reductions	-724																																																				
b. SBIR / STTR	-1647																																																				
c. Omnibus or Other Above Threshold Reductions		-298																																																			
d. Below Threshold Reprogramming	-26																																																				
e. Rescissions	-252	-263																																																			
Adjustments to Budget Years Since <u>FY 2000/2001</u> PB			+411																																																		
Current Budget Submit (<u>FY 2001</u> PB)	42025	71879	57419																																																		
<div style="display: flex; justify-content: space-between;"> Page 1 of 9 Pages Exhibit R-2 (PE 0604766A) </div>																																																					

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)				PROJECT D909	
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D909 Tactical Exploitation of National Capabilities (TENCAP) - Engineering Development (TIARA)	42025	71879	44503	46748	43926	59554	59395	Continuing	Continuing
<p>A. <u>Mission Description and Budget Item Justification:</u> This project supports the engineering development, enhancement, and sustainment of the Tactical Exploitation System (TES), Division TES (DTES), Advanced Electronic Processing Dissemination System (AEPDS), Mobile Integrated Tactical Terminal (MITT), and Forward Area Support Terminal (FAST). The Army's TES incorporates the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program. TES brings all of the existing and emerging Army TENCAP capabilities (AEPDS, MIES, and ETRAC) into an integrated common baseline that is downsized, modular and scalable to meet a wide range of contingency requirements. DTES will replace the MITT. TENCAP Common Baseline addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems. MIES, ETRAC, and the CIG/SS portion of TES are funded under PE 0305208A. Specific details are provided in the Tactical Intelligence and Related Activities (TIARA) Congressional Budget Justification Book, Volume II and the Joint Military Intelligence Programs (JMIP) Congressional Budget Justification Book, Vol. II.</p> <p>FY 1999 Accomplishments:</p> <ul style="list-style-type: none"> • 15510 Continued software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit national and theater capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with national and theater capabilities, this effort included engineering development and integration of Graphical Situation Display (GSD), Secondary Imagery Dissemination Environment And Resource Manager (SIDEARM), Defense Messaging System (DMS) into TENCAP systems. • 3500 Began engineering development of Tactical SIGINT Processor (TSP) for integration into TES to provide critical intelligence data to Tactical Commanders. • 17772 Continued engineering development of TES #1, including integration of existing reusable components (i.e. Miniaturized Data Acquisition System (MIDAS), Dissemination Element (DE), Common Imagery Processor (CIP), Common Data Link (CDL)) and the purchase and integration of COTs/GOTs government furnished equipment (GFE). • 5243 Continued support to TENCAP program management and administrative activities (e.g. FFRDC (Aerospace), ARL support, ASPO support, Army Topographic Engineering Center (TEC)). <p>Total 42025</p>									
<div style="display: flex; justify-content: space-between;"> Project D909 Page 2 of 9 Pages Exhibit R-2A (PE 0604766A) </div>									

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)	PROJECT D909
<p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 16672 Continue software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit national and theater capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with national and theater capabilities, this effort includes engineering development and integration of Generic Area Limitation Environment (GALE), improvements in Fault Detection and Fault Isolation (FDFI), and integration of SCI DMS into TENCAP systems. • 7313 Continue engineering development of Tactical SIGINT Processor (TSP) for integration into TES to provide critical intelligence data to Tactical Commanders • 7052 Develop prototype Division TES (DTES) • 11830 Complete engineering development of TES #1, including integration of existing reusable components (i.e. MIDAS, DE, CIP) and the purchase and integration of COTs/GOTs GFE. • 19496 Initiate engineering development of TES #2, including integration of existing reusable components (i.e. MIDAS, DE, CIP) and the purchase and integration of COTs/GOTs GFE. (Majority of this effort transfers to Project D957 in FY 2001.) • 6666 Continue support to TENCAP program management and administrative activities (e.g. FFRDC (Aerospace), ARL support, ASPO support, Army Topographic Engineering Center (TEC)). • 1500 Initiate transition engineering of Semi-Automated IMINT Processing (SAIP) from ACTD residual to operational configuration, including preliminary design of downsized SAIP for integration within TES. • 1350 Initiate modification of TES to receive Tactical Downlink to provide time critical direct support to deep operations and deep targeting. <p>Total 71879</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 18856 Continue software upgrades and enhancements for the refinement of the TENCAP Common Baseline to fully exploit national and theater capabilities such as integration of communications capabilities to meet changing architectures and implementation of software appliqué to provide the operational commander with enhanced battlefield intelligence products. In addition to staying current with national and theater capabilities, this effort includes: engineering development and integration of intelligence models of actual TENCAP systems and products for use in Warfighter demonstrations and simulations; engineering development of downsized components to receive national broadcast on smaller platforms (desktop and laptop computers); and development of system upgrades to leverage and exploit commercial imagery in TES. • 8000 Complete engineering development of Tactical SIGINT Processor (TSP) for integration into TES to provide critical intelligence data to Tactical Commanders • 4037 Complete engineering development of TES #2, including integration of existing reusable components (i.e. MIDAS, DE, CIP) and the purchase and integration of COTs/GOTs GFE. • 6500 Continue modification TES to receive Tactical Downlink to provide time critical direct support to deep operations and deep targeting. 		
Project D909	Page 3 of 9 Pages	Exhibit R-2A (PE 0604766A)

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								DATE February 2000																																																																																											
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)				PROJECT D909																																																																																										
<p>FY 2001 Planned Program: (continued)</p> <ul style="list-style-type: none"> • 500 Complete development of prototype Division TES (DTES) • 6610 Continue support to TENCAP program management and administrative activities (e.g. FFRDC (Aerospace), ARL support, ASPO support, Army Topographic Engineering Center (TEC)). <p>Total 44503</p>																																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">B. Other Program Funding Summary</th> <th><u>FY 1999</u></th> <th><u>FY 2000</u></th> <th><u>FY 2001</u></th> <th><u>FY 2002</u></th> <th><u>FY 2003</u></th> <th><u>FY 2004</u></th> <th><u>FY 2005</u></th> <th style="text-align: center;"><u>To Compl</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>RDTE, A Budget Activity 5</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PE 0604766A TENCAP Project D957 (TIARA)</td> <td></td><td></td><td style="text-align: right;">12916</td> <td style="text-align: right;">29926</td> <td style="text-align: right;">27619</td> <td style="text-align: right;">5801</td> <td style="text-align: right;">6000</td> <td style="text-align: center;">Cont</td> <td style="text-align: center;">Cont</td> </tr> <tr> <td>RDTE, A Budget Activity 7</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PE 0305208A (JMIP)</td> <td style="text-align: right;">8585</td> <td style="text-align: right;">8004</td> <td style="text-align: right;">7894</td> <td style="text-align: right;">8212</td> <td style="text-align: right;">8288</td> <td style="text-align: right;">8445</td> <td style="text-align: right;">8676</td> <td style="text-align: center;">Cont</td> <td style="text-align: center;">Cont</td> </tr> <tr> <td>Other Procurement Army, OPA-2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>BZ7315 TENCAP (TIARA)</td> <td style="text-align: right;">6033</td> <td style="text-align: right;">4350</td> <td style="text-align: right;">12853</td> <td style="text-align: right;">3839</td> <td style="text-align: right;">4382</td> <td style="text-align: right;">1977</td> <td style="text-align: right;">1975</td> <td style="text-align: center;">Cont</td> <td style="text-align: center;">Cont</td> </tr> <tr> <td>BZ7316 CIG/SS (JMIP)</td> <td style="text-align: right;">2487</td> <td style="text-align: right;">2778</td> <td style="text-align: right;">2833</td> <td style="text-align: right;">2599</td> <td style="text-align: right;">2610</td> <td style="text-align: right;">2653</td> <td style="text-align: right;">2714</td> <td style="text-align: center;">Cont</td> <td style="text-align: center;">Cont</td> </tr> <tr> <td>BZ7317 Tactical Surveillance System (TIARA)</td> <td></td><td></td><td></td> <td style="text-align: right;">22228</td> <td style="text-align: right;">11166</td> <td style="text-align: right;">31744</td> <td style="text-align: right;">9969</td> <td style="text-align: center;">Cont</td> <td style="text-align: center;">Cont</td> </tr> </tbody> </table>										B. Other Program Funding Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>	RDTE, A Budget Activity 5										PE 0604766A TENCAP Project D957 (TIARA)			12916	29926	27619	5801	6000	Cont	Cont	RDTE, A Budget Activity 7										PE 0305208A (JMIP)	8585	8004	7894	8212	8288	8445	8676	Cont	Cont	Other Procurement Army, OPA-2										BZ7315 TENCAP (TIARA)	6033	4350	12853	3839	4382	1977	1975	Cont	Cont	BZ7316 CIG/SS (JMIP)	2487	2778	2833	2599	2610	2653	2714	Cont	Cont	BZ7317 Tactical Surveillance System (TIARA)				22228	11166	31744	9969	Cont	Cont
B. Other Program Funding Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>																																																																																										
RDTE, A Budget Activity 5																																																																																																			
PE 0604766A TENCAP Project D957 (TIARA)			12916	29926	27619	5801	6000	Cont	Cont																																																																																										
RDTE, A Budget Activity 7																																																																																																			
PE 0305208A (JMIP)	8585	8004	7894	8212	8288	8445	8676	Cont	Cont																																																																																										
Other Procurement Army, OPA-2																																																																																																			
BZ7315 TENCAP (TIARA)	6033	4350	12853	3839	4382	1977	1975	Cont	Cont																																																																																										
BZ7316 CIG/SS (JMIP)	2487	2778	2833	2599	2610	2653	2714	Cont	Cont																																																																																										
BZ7317 Tactical Surveillance System (TIARA)				22228	11166	31744	9969	Cont	Cont																																																																																										
<p>C. Acquisition Strategy: As pioneers in streamlined acquisition, ASPO's success in delivering systems as those described above to warfighters can be directly attributed to an environment emphasizing stable funding, low density acquisition, minimal use of MILSPECS, and managed competition. By tailoring existing technology, leveraging the best commercial practices and using commercial and government-off the shelf software, ASPO minimizes risk while maximizing efficiency. Finally, Government and contractor personnel and facilities accomplish dedicated cradle to grave Integrated Logistics Support (ILS) for TENCAP systems through a coordinated effort.</p>																																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">D. Schedule Profile</th> <th><u>FY 1999</u></th> <th><u>FY 2000</u></th> <th><u>FY 2001</u></th> <th><u>FY 2002</u></th> <th><u>FY 2003</u></th> <th><u>FY 2004</u></th> <th><u>FY 2005</u></th> </tr> </thead> <tbody> <tr> <td>Initiate migration of JTT into AEPDS and TES</td> <td style="text-align: center;">2nd QTR</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Complete integration of GBS into AEPDS and TES</td> <td style="text-align: center;">4th QTR</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Complete Eng. Development of TES-Forward</td> <td style="text-align: center;">4th QTR</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Complete Eng. Development of TES-Main</td> <td></td> <td style="text-align: center;">4th QTR</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Complete development and integrate TSP into TES</td> <td></td><td></td> <td style="text-align: center;">4th QTR</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Complete development of TES #2</td> <td></td><td></td> <td style="text-align: center;">4th QTR</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Complete development of DTES prototype</td> <td></td><td></td> <td style="text-align: center;">3rd QTR</td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>										D. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	Initiate migration of JTT into AEPDS and TES	2 nd QTR							Complete integration of GBS into AEPDS and TES	4 th QTR							Complete Eng. Development of TES-Forward	4 th QTR							Complete Eng. Development of TES-Main		4 th QTR						Complete development and integrate TSP into TES			4 th QTR					Complete development of TES #2			4 th QTR					Complete development of DTES prototype			3 rd QTR																														
D. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>																																																																																												
Initiate migration of JTT into AEPDS and TES	2 nd QTR																																																																																																		
Complete integration of GBS into AEPDS and TES	4 th QTR																																																																																																		
Complete Eng. Development of TES-Forward	4 th QTR																																																																																																		
Complete Eng. Development of TES-Main		4 th QTR																																																																																																	
Complete development and integrate TSP into TES			4 th QTR																																																																																																
Complete development of TES #2			4 th QTR																																																																																																
Complete development of DTES prototype			3 rd QTR																																																																																																
<div style="display: flex; justify-content: space-between;"> Project D909 Page 4 of 9 Pages Exhibit R-2A (PE 0604766A) </div>																																																																																																			

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000	
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)				PROJECT D909
D. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Initiate integration of Phased Array Antenna into TENCAP systems.				2 nd QTR				
Complete integration of Phased Array Antenna into TENCAP systems					3 rd QTR			
Initiate Future Imagery Architecture integration into TENCAP Systems						2 nd QTR		
Initiate SAIP integration into TENCAP systems						3 rd QTR		
Integrate GBS/JBS into TENCAP systems							3 rd QTR	
Project D909			Page 5 of 9 Pages			Exhibit R-2A (PE 0604766A)		

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)										DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)					PROJECT D909		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. TES #1 Prototype *	C/CPAF	CLASSIFIED	47766	17772	11/98	11830	11/99		0	0	77368	
b. Common Baseline **	SS/CPAF	CLASSIFIED	N/A	15510	1/99	16672	2/00	18856	2/01	Cont	51038	
c. TSP	SS/CPAF	CLASSIFIED	143	3500	12/98	7313	11/99	8000	11/00	0	18956	
d. TES #2 EDM*	SS/CPAF	CLASSIFIED	0			19496	3/00	4037		0	23533	
e. DTES Prototype	SS/CPAF	CLASSIFIED	0			7052	4/00	500	11/00	0	7552	
f. TDL Collector	TBD	TBD	0			1350	3/00	6500	1/01	23000	30850	
g. SAIP Prototype Study	TBD	TBD	0			1500	2/00			0	1500	
Subtotal Product Development:			47909	36782		65213		37893		23000	210797	
Remark: * TES development is also partially funded under PE 0305208A and PE 0604766A Project D957. ** Common Baseline addresses common subsystems, planned improvements, key activities, and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems (including MIES, ETRAC, and TES that have funding under PE 0305208A)												
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. System Engineering (Government)	N/A	TEC, Alexandria VA	Cont	1235		1603	12/99	1649		Cont	4487	
b. ASPO In-house	N/A	ASPO, Alexandria, VA	Cont	2533		3531	9/00	3564		Cont	9628	
c. FFRDC	CPAF	Aerospace Corp, LAAFB, CA	Cont	1475		1532	12/99	1397		Cont	4404	
Subtotal Support Costs:				5243		6666		6610			18519	
III. Test and Evaluation: Not applicable												
IV. Management Services: Not applicable												
Project Total Cost:			47909	42025		71879		44503		23000	229316	
<div style="display: flex; justify-content: space-between; padding: 10px;"> Project D909 Page 6 of 9 Pages Exhibit R-3 (PE 0604766A) </div>												

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)				PROJECT D957	
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D957 Tactical Exploitation System (TES) (TIARA)	0	0	12916	29926	27619	5801	6000	Continuing	Continuing
<p>A. Mission Description and Budget Item Justification: This project supports the engineering development and enhancement of the Tactical Exploitation System (TES). The Army's TES will incorporate the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program. TES brings all of the existing and emerging Army TENCAP capabilities (AEPDS, MIES, and ETRAC) into an integrated common baseline; downsized, modular and scaleable to meet a wide range of contingency requirements. The CIG/SS portion of TES is funded under PE 0305208A. Specific details are provided in the Tactical Intelligence and Related Activities (TIARA) Congressional Budget Justification Book, Volume II and the Joint Military Intelligence Program (JMIP) Congressional Budget Justification Book, Vol. II.</p> <p>FY 1999 Accomplishments: Effort was funded under project D909 of this PE in FY 1999.</p> <p>FY 2000 Planned Program: Effort is funded under project D909 of this PE in FY 2000.</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 750 Provide program management support to Semi Automated Imagery Processor (SAIP) activities. • 7796 Complete engineering development of TES #2, including integration of existing reusable components (i.e. MIDAS, DE, CIP) and the purchase and integration of COTs/GOTs GFE. This effort was started under Project D909 in FY 2000. • 4370 Initiate engineering development of TES #3, including integration of existing reusable components (i.e. MIDAS, DE, CIP) and the purchase and integration of COTs/GOTs GFE <p>Total 12916</p>									
<div style="display: flex; justify-content: space-between;"> Project D957 Page 7 of 9 Pages Exhibit R-2A (PE 0604766A) </div>									

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)				PROJECT D957	

B. <u>Other Program Funding Summary</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE, A Budget Activity 5									
PE 0604766A TENCAP Project D909 (TIARA)	42025	71879	44503	46748	43926	59554	59395	Cont	Cont
RDTE, A Budget Activity 7									
PE 0305208A (JMIP)	8585	8004	7894	8212	8288	8445	8676	Cont	Cont
Other Procurement Army, OPA-2									
BZ7315 TENCAP (TIARA)	6033	4350	12853	3839	4382	1977	1975	Cont	Cont
BZ7316 CIG/SS (JMIP)	2487	2778	2833	2599	2610	2653	2714	Cont	Cont
BZ7317 Tactical Surveillance System (TIARA)				22228	11166	31744	9969	Cont	Cont

C. Acquisition Strategy: As pioneers in streamlined acquisition, ASPO's success in delivering systems as those described above to warfighters can be directly attributed to an environment emphasizing stable funding, low density acquisition, minimal use of MILSPECS, and managed competition. By tailoring existing technology, leveraging the best commercial practices and using commercial and government-off the shelf software, ASPO minimizes risk while maximizing efficiency. Finally, Government and contractor personnel and facilities accomplish dedicated cradle to grave Integrated Logistics Support (ILS) for TENCAP systems through a coordinated effort.

D. <u>Schedule Profile</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Complete development of TES #2			4 th QTR				
Complete development of TES #3				4 th QTR			
Complete development of TES #4						4 th QTR	
Complete development of TES #5							4 th QTR

Project D957
Page 8 of 9 Pages
Exhibit R-2A (PE 0604766A)

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)										DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604766A Tactical Exploitation of National Capabilities (TENCAP) - Engineering & Manufacturing Development (TIARA)					PROJECT D957		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. TES #2 EDM *	SS/CPAF	CLASSIFIED						7796	11/00	*	7796	
b. TES #3 EDM *	SS/CPAF	CLASSIFIED						4370	3/01	*	4370	
Subtotal Product Development:								12166			12166	
Remark: * TES development is also partially funded under PE 0305208A and PE 0604766A Project D909.												
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. System Engineering (Government)	N/A	TEC, Alexandria, VA						400		Cont	Cont	
b. Contractor	SS/FF	Classified						350		Cont	Cont	
Subtotal Support Costs:								750				
III. Test and Evaluation: Not applicable												
IV. Management Services: Not applicable												
Project Total Cost:								12916		Cont	Cont	

Project D957

Page 9 of 9 Pages

Exhibit R-3 (PE 0604766A)